

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 7,084,900 B1  
APPLICATION NO. : 09/546214  
DATED : August 1, 2006  
INVENTOR(S) : Atsushi Watanabe et al.

Page 1 of 2

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

First Page Column 2 (Other Publications), Line 4, change "et al," to --et al.--.  
First Page Column 2 (Abstract), Line 4-5, change "workpeace" to --workpiece--.  
Page 2 Column 1 (Other Publications), Line 1, change "et al," to --et al.--.  
Page 2 Column 1 (Other Publications), Line 3, change "Heuristuic" to --Heuristic--.  
Page 1 Column 1 (Other Publications), Line 5, change "et al," to --et al.--.  
Page 1 Column 2 (Other Publications), Line 1, change "et al," to --et al.--.  
Page 2 Column 2 (Other Publications), Line 4, change "Hornegger" to --Homegger--.  
Page 2 Column 2 (Other Publication), Line 4, change "et al," to --et al.--.  
Sheet 5 of 7 (Box 201) (FIG. 6), Line 1, change "THREE-DIMENTIONAL" to --THREE-DIMENSIONAL--.  
Sheet 5 of 7 (Box 209) (FIG. 6), Line 3, change "THREE-DIMENTIONAL" to --THREE-DIMENSIONAL--.  
Sheet 6 of 7 (Above Figure) (FIG. 7), Line 1, change "MEASUREMANT" to --MEASUREMENT--.

Column 1, Line 66, insert --The image capturing device may be a camera for capturing two-dimensional image data, and in this case the image data of the reference object are captured by the image capturing device from a predetermined distance. Alternatively, the image capturing device may be a visual sensor for capturing three-dimensional image data, and when the three-dimensional visual sensor is adopted the image data containing an image of the object of detection may be two-dimensional arrangement data including distance information from the object of detection to the image capturing device, apart of said two-dimensional arrangement data or a set of distance data.--, as a new paragraph.

Column 2, Lines 4-8, delete "The image capturing device may be attached to an wrist of an robot. Further, the image data of the reference object can be captured in a place different from a place where the detection of the object is performed, and supplied to the image processing apparatus on line or off line."

Column 2, Line 63, change "memory," to --memory--.  
Column 3, Line 18, change "co-called" to --so-called--.  
Column 3, Line 22, change "5al-5an" to --5al-an--.  
Column 3, Line 27, change "5al-5am." to -5al-an--.  
Column 3, Line 27, change "input-output" to --input/output--.  
Column 4, Line 9, change "Three dimensional" to --Three dimensional--.  
Column 4, Line 27, change "two dimensional" to --two-dimensional--.  
Column 4, Line 50, change "Then" to --Then--.  
Change 4, Line 58, change "reportedly" to --repeatedly--.

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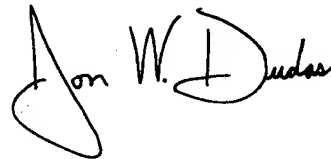
Page 2 of 2

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 5, Line 30, change "worpieces" to --workpieces--.  
Column 6, Line 16, change "angels" to --angles--.  
Column 6, Line 50, after "piece" change "is" to --in--.  
Column 6, Line 58, change "Y" to -- y-, --.  
Column 7, Line 52, change "There-dimensional" to --Three-dimensional--.  
Column 10, Line 16, change "senor" to --sensor--.

Signed and Sealed this

Eighteenth Day of September, 2007

A handwritten signature in black ink, reading "Jon W. Dudas". The signature is stylized, with a large, looped initial "J" and a distinct "D" at the end.

JON W. DUDAS  
*Director of the United States Patent and Trademark Office*